

OUTLOOK

April 24, 1989

New Graphics for
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Women's Group Issues First Status Report

Of the 209 honorary degrees UMCP has awarded since 1923, 191 went to men; women received 18.

Of academic departments and programs in the fall of 1988, 98 were headed by men; 4 were headed by women.

Of faculty hired at the assistant professor level from 1983 through 1987, 207 were men, and 88 were women.

Of a group of 1986 graduates responding to a survey, men earned a median salary of \$24,000-\$26,999; women earned \$18,000-20,999.

After more than a year and a half of laboriously culling through such numbers and other data about how women are faring at College Park, the President's Commission on Women will officially unveil today, April 24, at its noon meeting, a report on the status of women at UMCP.

The report, distributed to campus leaders last week, will be presented by status report subcommittee chair Marsha Guenzler to the Women's Legislative Caucus, a group of state legislators who have been invited to attend the briefing.

The long, slim-formatted report is full of numbers—how many women lead student organizations, retention rates of female students, how many women hold graduate assistantships, tenure actions, salary differences.

"This material is our first effort," says Guenzler, who is assistant director of the Stamp Student Union. "We hope to use it as a base line for annual reporting. It will help us discover areas we need to study, where there is progress, where we need further efforts."

Virginia Beauchamp, chair of the President's Commission on Women's Affairs, agrees. "We hope this will become a series of reports—an annual stock-taking of particular issues and of our campus environment."

Both Guenzler and Beauchamp hope the report will stimulate discussion and encourage others to look at other data within their own administrative units. "People need to talk anecdotally about their own ex-

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Three from UMCP Win 1989 Presidential Young Investigator Awards



Thomas Fuja



Howard Elman



Christos Faloutsos

Three UMCP assistant professors have been selected by the National Science Foundation (NSF) to receive prestigious five-year research grants.

Howard Elman and Christos Faloutsos, who hold joint appointments in the Department of Computer Science and UMIACS, the University of Maryland Institute for Advanced Computer Studies, and Thomas E. Fuja of the Department of Electrical Engineering and the Systems Research Center, have been named Presidential Young Investigators for 1989.

The three bring to 17 the number of UMCP faculty who have won the award since the program was established in 1984.

Each year, NSF sponsors 200 Young Investigator awards to fund research by promising college professors who

are beginning their careers. The awards can be worth as much as \$100,000 per year for five years. NSF provides an annual base grant of \$25,000 and matches up to \$37,500 per year of gifts from industry.

Elman, who joined the faculty in 1985, is a specialist in numerical analysis. He earned a Ph.D. in computer science from Yale University in 1982 and worked there as a research associate until coming to College Park. He also holds an M.S. from Yale and M.A. and B.A. degrees from Columbia University.

"Many physical processes such as the performance of semi-conductor devices or secondary oil recovery from wells that are nearly dry can be modeled by differential equations," he notes. "The grant will allow me to get additional help with computer equip-

ment, graduate students and maybe even some post-docs."

Faloutsos' research interests lie in the field of database systems. He holds Ph.D. and M.S. degrees in computer science from the University of Toronto and a B.S. from the National Technical University of Athens in his native Greece. He joined the UMCP faculty in 1985.

Faloutsos says, "I plan to examine certain techniques for large databases that contain non-traditional data such as text and images with applications in document retrieval and geographic information."

Fuja specializes in coding theory and application and information theory. He joined the electrical engineering faculty in 1987 after earning his Ph.D. from Cornell University. He also holds an M.E. from Cornell and two B.S. degrees in electrical engineering and computer engineering from the University of Michigan.

He specializes in incorporating redundancy in protecting against errors in the storage and transmission of data.

"I try to develop ideas for new communication systems and also for computer memory systems," he says. "The grant will help me afford to support additional graduate students."

—Tom Otwell

Proposed Policy on Promotion and Tenure To Be Discussed at Open Senate Hearing on May 1

The Campus Senate will hold a special open meeting on Monday, May 1 in room 0126, Record Armory starting at 3:30 p.m. to discuss a proposed College Park Campus policy regarding academic and administrative appointments, promotion, tenure, emeritus, and appeal procedures (APT policy). All faculty are encouraged to attend and to contact their department senators about the meeting.

The results of two years of work by the Senate's General Committee on Faculty Affairs, the proposed campus policy differs in a number of ways from the interim College Park policy approved by the UM Board of

Regents, and the discussion also comes on the heels of passage by the Board on April 5 of a system-wide University Policy on Appointment, Rank, and Tenure of Faculty. The proposed campus policy to be discussed on May 1 "complements" the UM System Policy just passed by the Regents and, if adopted by the Board, will supersede the interim campus policy that is essentially the same as the one governing the campus before the new System was created.

Broader in scope than the current interim policy, the proposed APT policy would constitute a contract, once accepted by the Regents, and would require that any future revi-

sions to the document be approved by the Campus Senate and be presented to individual faculty members who will have an opportunity to accept or reject an amended contract incorporating any new provisions. The document under discussion proposes that together with the system policy, the campus policy shall be contractually binding on both the campus faculty and the university. It also states that "Acceptance by a faculty member of the provisions of the

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Planning for Joint UMCP-Moscow Program Underway

Associate professors of nuclear engineering Zazys Almenas and Gary Pertmer spent part of mid-March in the Soviet Union at the Moscow Power Engineering Institute. Their visit was part of preliminary planning for an exchange program between the Institute and the UMCP College of Engineering's Department of Chemical and Nuclear Engineering. Two students from the Moscow school are expected to begin a year's program of study in the department next spring, Pertmer says, and two Slavic language students from UMCP will go to the Soviet Union. Eventually, Pertmer says, it is hoped that an exchange of both students and faculty can be worked out.

Snow to Discuss Particle Physics

George A. Snow, professor, Dept. of Physics and Astronomy, will conclude this year's Distinguished Scholar-Teacher Lecture Series with his lecture, "Thirty Years of Particle Physics: Then and Now," Monday, May 1 at 2 p.m. in Room 2203 of the Art-Sociology Bldg.

RESEARCH HIGHLIGHTS

Survey Finds Writing Program Helps Meet Job World Challenges

In 1979, UMCP established the Junior Writing Program to give undergraduates training in the types of writing assignments they might encounter in the job world.

During their junior year, the future engineers, rocket scientists, graphic artists, accountants, chemists, doctors, lawyers and law enforcement officers attending UMCP were required to take a class that taught basic approaches to writing memos, reports, correspondence and other types of professional writing. More than 50 part-time instructors, including professional writers and editors, were hired to conduct the classes for some 5,000 students annually.

Last year, program officials surveyed 3,000 UMCP students from their 1982-87 class lists to discover whether the graduates did indeed find the class useful. The answer? An overwhelming yes.

Of about 450 persons who both answered the survey and had taken the class, 75 percent said the writing course had given them an advantage in the workplace and 65 percent found they had referred to specific ideas pass along in the course.

"Based on the results, and especially anecdotal comments that accompanied the responses, we gather that we're doing something useful," says Nancy Shapiro, assistant director of the program.

"What we were especially curious about was the kinds of writing students find themselves doing on the job. This gives us an idea of the kinds of courses we could create above and beyond what we're doing now."

The survey brought responses from persons in a wide variety of profes-

sions including nuclear engineers, television producers, professors, graphic designers, systems analysts, filing clerks, police officers, firefighters, journalists and free lance writers.

Among the highlights of the survey:

- Respondents indicated that they do many different types of writing assignments on the job but primarily short correspondence. More than two-thirds said they write memos, letters and reports. Proposals, evaluations, manuals and brochures were other types of writing frequently mentioned.

- Supervisors were the most frequently cited audience. About two-thirds of the respondents write for their bosses. Colleagues, associates, trainees and the general public also frequently received job-related writing from the former students.

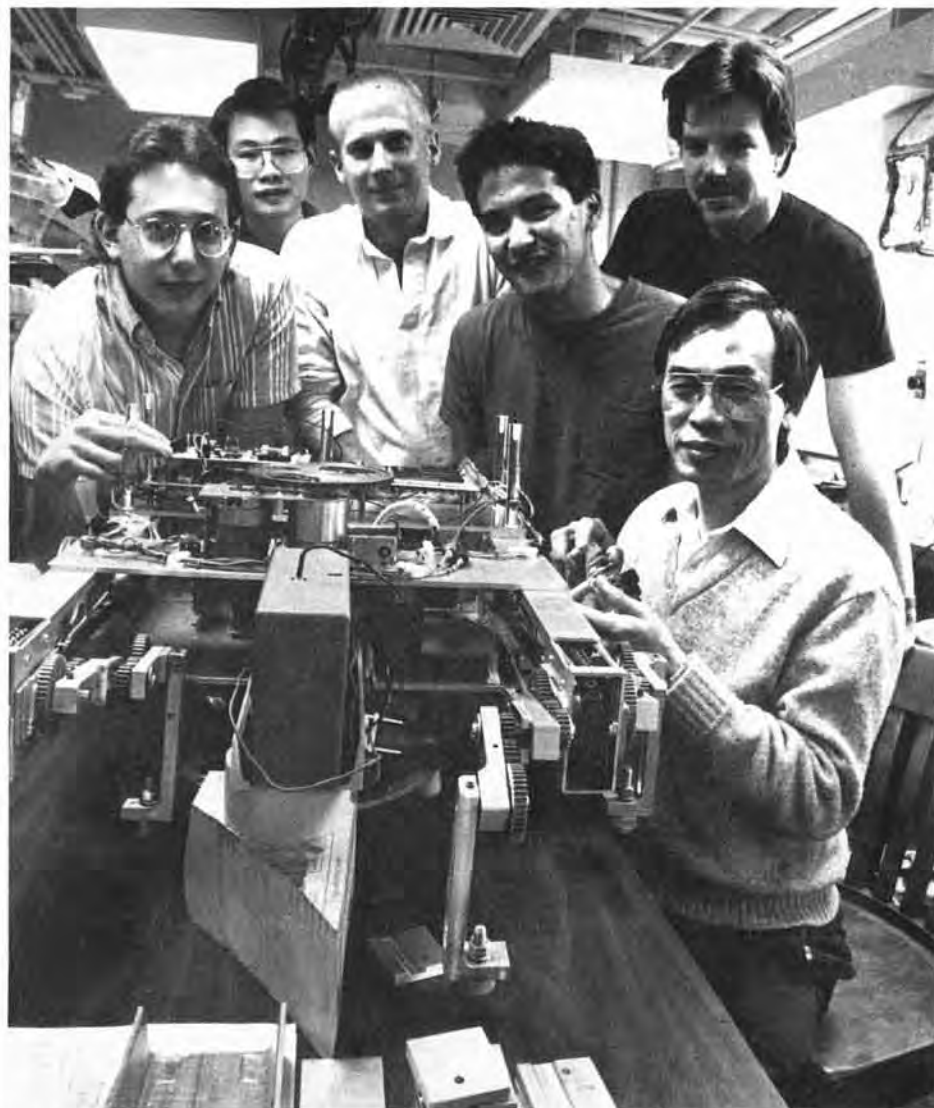
- The respondents reported that they collaborate on writing projects in the workplace more than they did as college students. More than 70 percent of the respondents said that they collaborate with colleagues on longer documents and about half that group said they often or always co-author documents.

- A large share of the work week is devoted to writing, respondents said. About a quarter of the respondents said they spend more than 70 percent of their week on writing and an additional 44 percent reported that writing occupies 40-50 percent of their time on the job.

- The respondents seldom received training in writing in the workplace, they said. "Employers apparently assume that employees either come to the job fully trained or can pick up the necessary writing skills while they work," the report says.

In anecdotal comments, many respondents reported that the quality of their writing either put them ahead or behind in their jobs. As one engineer stated, "Writing ability is the difference between going further toward the upper echelon or remaining in the beginning level." ■

—Brian Busek



PROTOTERP III and team members

UMCP Walking Machine Goes to Texas

PROTOTERP III, a walking robot built by a team of 26 UMCP undergraduate engineering students, was in Lubbock over the weekend representing College Park in the Third Annual Walking Machine Decathlon which was hosted by Texas Tech University.

The annual competition, which was held at UMCP last spring, is designed to encourage cooperation between various engineering disciplines in the design, construction and testing of a walking machine. It is also intended

to get students thinking creatively about the technology needed to develop industrial robots.

Nine colleges and universities entered this year's competition.

Each entry must compete in ten levels of performance, each more difficult than the last. The walking machine must traverse a prescribed path at various speeds. More demanding tasks require it to "walk" up and down a three-step flight of stairs and negotiate a contest course strewn with randomly located barriers. ■

OUTLOOK

Outlook is the weekly faculty-staff newspaper serving the College Park campus community.

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Letters to the editor, story suggestions, campus information & calendar items are welcome. Please submit all material at least three weeks before the Monday of publication. Send it to Roz Hiebert, Editor Outlook, 2101 Turner Building, through campus mail or to University of Maryland, College Park, MD 20742. Our telephone number is (301) 454-5335.



AT&T Day on Campus Features Computer Simulations and Interactive Exhibits

In the cold of winter last January, a contract for a major telecommunications system for the University of Maryland at College Park was awarded to AT&T. On Tuesday, April 25, with the campus at its spring loveliest, Robert E. Allen, AT&T's chairman and chief executive officer will visit UMCP to meet with President Kirwan and talk with students as part of a day designed to celebrate the partnership between AT&T and UMCP.

As a special highlight of the day, AT&T has arranged for its traveling high-tech, interactive exhibit to be set

up in the Stamp Student Union. The hands-on exhibit includes such attractions as a computerized simulation of a remote-controlled robot, interactive electronic mail, sophisticated electronic graphics and computerized color matching. The exhibit will be open to the campus community and the public from 12 noon to 4 p.m. in the Tortuga Room of the Union.

As part of his visit to campus, Allen will meet with a dozen graduate students, four each from business, engineering and computer science, to discuss changes in the telecommunica-

tions industry. He will be introduced by Robert Dorfman, dean of the College of Computer, Mathematical and Physical Sciences.

The UMCP's new telecommunications system will include the installation of new conduit, cable, telephone switch, telephones, coaxial cable for video transmission to classrooms and laboratories, voice mail, and installation of fiber optic cable for high speed data transmission. The system, costing \$32,843,974 including \$7,433,000 for ten years of system maintenance, will provide for over 15,000 connections including service for faculty, staff and resident students. ■

If You Want A Crowd in July, Announce Your Event in May

For the last Outlook Calendar of the semester, we need to know about lectures, seminars, concerts, exhibits and all other special events that will take place on campus this summer. If you know of something, please send the information (in writing) by this Friday, April 28 to: John Fritz, Calendar Editor, Outlook, 2101 Turner Laboratory. Please include titles of events, if any, participants' names, time and place of the event as well as a phone number for information. For more information, call 454-5335.

Health Center Focuses on Benefits of Fruit, Fun, and Laughter

In preparation for summer, the Health Center is sponsoring special events during May. The demonstrations for May 1-4 are: "Fun is Good for Your Health," featuring representatives from the stress management program on the benefits of fun, play and laughter on your health; "Summer Fruits and Fun Foods," a demonstration by a nutritionist on creative uses of fruit for a healthy diet; information on "Exercising in Hot Weather" and "Making Mocktails: Tips for Fun, Healthy Party-ing." All events are scheduled from 10 a.m. to 2 p.m., in front of the Health Center. Call 454-3444 for information.

Annapolis Hall Cornerstone-Laying Ceremony Set for Friday



Annapolis Hall (before)

Three silver coins, each carrying a date symbolic of the history of the campus, are among the artifacts sealed in a time capsule that will be placed in the cornerstone of Annapolis Hall during ceremonies Friday, April 28.

The coins are an 1856 half-dollar (the year the Maryland Agricultural

College was chartered), a 1924 dollar (the year the original Annapolis Hall was completed), and a 1989 dollar (the completion date of new Annapolis Hall).

They will remain in the time capsule until its scheduled reopening 50 years from now.



Annapolis Hall (after)

President William E. Kirwan will preside at the cornerstone-laying ceremony, which begins at 11:30 a.m.

The campus community is invited to attend the event and to view in the Annapolis Hall lobby a display of the items placed in the time capsule as well as those recovered from the

cornerstone of the original building when it was razed two years ago.

The new building houses the Department of Resident Life, the Office of Campus Guest Services, and Telefund. It also serves as the community center for the South Hill residential community. ■

Awards Banquet Honors Student Leaders

Over 250 students were recognized for their outstanding service and leadership on the College Park campus during the Eighth Annual Awards Banquet Tuesday evening, April 18, in the Stamp Union Grand Ballroom.

Eric Young and Gina Massoglia, winners of the 1989 Spirit of Maryland award, were the master and mistress of ceremonies in which 28 different awards were presented, including Mortar Board and Who's Who Among College and University Students.

Some of the winners included Rhonda Williams, a senior journalism major from Baltimore who won the Mary McCleod Bethune Citizenship Award honoring the top black student leader on campus. She tied with Denise Goode, a senior economics major, also from Baltimore, for the Wilson H. Elkins Award for the senior who most made a difference as an agent of change.

Julie Young, a senior early childhood major from Potomac received the Sally Sterling Byrd Citizenship Award for top female student. Seth Bernstein, a senior psychology major from Aberdeen, New Jersey won the H. C. Byrd Award for top male student.

Shauna Paylor, a senior biochemistry major from Greenbelt received the Omicron Delta Kappa award for student leader of the year. In addition to being president of the Pre-Med club, she also volunteers at Montgomery General Hospital, the UMCP Health Center and is a Big Sister to two freshmen.

"All of the students are outstanding," says Artie L. Travis, assistant director for Campus Activities. "They best represent what service and leadership is all about." ■

—John Fritz

Status of Women Reported

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periences," Guenzler says. "The best way to understand all these numbers is to flesh them out with life stories."

Guenzler credits Marilyn Brown, director of Institutional Studies, for providing much of the material her subcommittee worked with, and Roz Hiebert, director of Public Information, for help in putting it all into a readable form.

"We are open to hearing about other areas we need to study or report for next year," she says. "Perhaps graduation rates by race and ethnicity, perhaps matters from the Greer Report. We are hoping lots of people will be telling us: next year why don't you look into X."

For a copy of the status report, call the office of the President's Commission on Women's Affairs, 454-6668. ■

—Linda Freeman

Senate Will Consider Promotion and Tenure Issues

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new system policy shall be construed as acceptance also of the new College Park policy; faculty who elect to remain under the provisions of their former contract will not be governed by all the provisions of the new College Park policy."

The policy recommends changes in a number of important areas.

•Granting of Emeritus status—Recommendations recognize that the questions of possible designation of emerita or emeritus status deserve the same kind of deliberation as APT questions. Emeritus status is a benefit and is designated in recognition not of services promised but of services performed; therefore, faculty are entitled to a basis of expectations about the granting of it and to safeguards against irregularities, says the proposal.

•Elimination of third-level review—It advocates eliminating this level of review since there is little justification for a campus-level review committee and little chance that it will correct mistakes or add anything to previous deliberations.

•Whose recommendation—the department chair's or eligible faculty's—constitutes the "recommendation of the department"?—The proposed policy says that the recommendation should be that of eligible faculty.

•Openness and confidentiality—In keeping with AAUP philosophy, written reasons should be given for pro-

motion and tenure decisions, while preserving confidentiality.

•Schedule and eligibility for promotion or tenure review—This section establishes timetables for formation of committees and completion of proceedings. It proposes options for stopping the tenure clock in order to compensate for temporarily diminished productivity, an option for waiving tenure review, and an additional and terminal one-year appointment if tenure is denied.

•Defines the grounds for dismissal—It devises language to prevent termination of an appointment under the guise of discontinuation of a program or unit. It also adds an appendix to try to reduce vague language and be more specific in defining the kinds of actions and/or conditions that might—or might not—be referred to in the context of dismissal.

•The appeals procedure—The proposal introduces time limits for making appeals requests and extends the grounds for review beyond mere procedural error into matters of substance.

The entire proposed policy will be published in *The Faculty Voice* and is available in the Campus Senate Office. For more information, call 454-4549. ■

—Roz Hiebert

Calendar

April 24 — May 3

Two Music Students Score with Prize-Winning Performances

Two UMCP students have won prestigious young soloist competitions, collegiate division, with the National Symphony Orchestra. Soprano Jennifer Wynne Post sang arias by Bellini, Mozart and Handel in her prize-winning performance. A graduate student in the Opera Program, she studies with James McDonald. Pianist Donna Lee, who is an undergraduate studying with Thomas Schumacher, won her competition playing the First Movement of Prokofiev's Piano Concerto, No. 3. Both young artists will be featured soloists with the NSO next winter.

24 MON

MAASCUS Teacher Interviewing Consortium, featuring representatives from 50-60 school districts on teaching opportunities, 8:30 a.m.-5 p.m., Grand Ballroom, Stamp Union. Call x2813 for info.

International Agriculture and Life Sciences Lecture: "Basque Family Farming: Industrialization, Tourism and the Underground Economy," Davydd Greenwood, noon, 0115 Symons Hall. Call x4607 for info.

Plasma Physics Seminar: "Some Early Work on Fusion and Accelerators in the United Kingdom, 1945-1955," J. D. Lawson, United Kingdom, 1:30 p.m., 1207 Energy Research Bldg. Call x3501 for info.

Distinguished Scholar-Teacher Public Lecture: "Public Universities and State Governments: Is the Tension Benign?" Robert Berdahl, 2 p.m., 2203 Art-Sociology Bldg. Call x4508 for info.

Roundtable Discussion: "Women and the Holocaust: Resonances of Survival," participants TBA, 3 p.m., 2203 Art/Sociology Bldg. Call x3841 for info.

General Relativity Seminar: "Gravitational Crunch: More Problems," John Wheeler, Princeton U., 3 p.m., 1126 Physics Bldg. Call x3501 for info.

Entomology Colloquium: "Pathophysiological Effects of the Microsporidian, *Nosema whitei*, on the Reproductive System in *Tribolium castaneum*," Linda Bass, 4 p.m., 0200 Symons Hall. Call x3843 for info.

Nuclear Experimental Seminar: "Hard on Spectroscopy: An Overview with Strings Attached," Nathan Isgur, U. of Toronto, 4 p.m., 1304 Physics Bldg. Call x3501 for info.

Computer Science Colloquium: "The Death of a Travelling Salesman," Harold S. Stone, IBM Watson Research Center, 4 p.m., 0111 Classroom Bldg. Call x4244 for info.

Space Science Seminar: "Plasma Wave Observations in the Magnetosphere and Geomagnetic Tail from ISEE and AMPTE/IRM," Roger Anderson, U. of Iowa, 4:30 p.m., 1113 Computer & Space Sciences Bldg. Call x3136 for info.

25 TUE

AT&T Interactive Exhibit, featuring demonstrations of remote control robot, electronic mail and much more, 12-4 p.m., Tortuga Room, Stamp Union. Call x4971 for info.

Zoology Seminar: "Conservation Biology as an Intellectual Challenge: The Dynamics of Very Rare Species," Stuart Pimm, U. of Tennessee, Knoxville, noon, 1208 Zoo/psych. Bldg. Call x3203 for info.

Dynamical Systems and Accelerator Theory: "Introduction to Free Electron Lasers," Kathy Harkay, 2 p.m., 1126 Physics Bldg. Call x3501 for info.

Graduate School Distinguished Lecture: "Gender and Knowledge: Rubens and the Engendering of Art," Svetlana Alpers, U. of California, Berkeley, 3:30 p.m., Architecture Auditorium. Call x2843 for info.

Center on Population, Gender, and Social Inequality Seminar: "Racial Change in the 60s: Gains and Losses for Blacks," Reynolds Farley, U. of Michigan, 3:30 p.m., 2115 Art-Sociology Bldg. Call x3112 for info.

History Lecture: "The French Revolution and the Enlightenment," William Doyle, U. of Bristol, 4 p.m., 1117 F. S. Key Hall. Call x2843 for info.

Physics and Astronomy Colloquium: "The Quest for the Origin of the Elements," William Fowler, California Institute of Technology, 4 p.m., 1410-1412 Physics Bldg. Call x3512 for info.

The UM Symphonic Wind Ensemble and Concert Band, will present a joint concert of works by Williams, Rossini, Hindemith and Grainger, and will feature bassoonist Judith Dispenza playing the 1st movement of Mozart's Concerto in B flat, K 191, 8 p.m., Tawes Theatre. Call x6803 for info.

26 WED

Employee Development Seminar: "An Overview of the Personnel Services Function," UMCP Personnel Services Dept., 9 a.m.-noon, Maryland Room, Marie Mount Hall. Call x4811 for info.

Black Women's Council Reception: "Emotional Role of Black Women," Sheri Parks, 12 noon to 2 p.m., 1137 Stamp Union. Refreshments. Call x4124 for info. **Neurobiology and Behavior Seminar**: "Big Brained Sharks: An Exercise in the Comparative Method," R. Glenn Northcutt, U. of California, San Diego, noon, 1208 Zoo/psych. Bldg. Call x3202 or x6378 for info.

Counseling Center Brown Bag Lecture: "Current Retention Studies," presented by members of the Retention Study Group chaired by Stanley Hunt, noon, 0106 Shoemaker Bldg. Call x2931 for info.

Applied Agriculture Seminar: "What Is Your Lawn Mower Familiarity Quotient?" Cecil Massie, noon, 0106 Shriver Laboratory. Call x3938 for info.

AIDS Symposium in conjunction with Math Awareness Week, featuring speakers on mathematical, statistical and demographic aspects of AIDS, 1-5 p.m., 3206 Mathematics Bldg. Call x3021 for info.

UMIACS Seminar Series on Geometry: "Algorithms for Rectangle Containment Problems," Michael Dillencourt, 3:30 p.m., 1112A. V. Williams Bldg. Call x5549 for info.

High Energy Seminar: "Two Body Charmless Decay of B Meson," Shekar Mishra, Los Alamos National Lab, 4 p.m., 1304 Physics Bldg. Call x3501 for info.

27 THU

Piano Recital, featuring the MALIHARRIS Trio, performing Mendelssohn's Piano Trio in D Minor, Opus 49, 12:15 p.m., Piano Room, 3216 Hornbake Library. Call x6874 for info.

Microbiology Research Seminar: Title TBA, John Roth, U. of Utah, 3:30 p.m., 1207 Microbiology Bldg. Call x5502 for info.

Meteorology Seminar: "Land-Surface Processes and Climate," Robert Dickinson, NCAR, 3:30 p.m., 2114 Computer & Space Sciences Bldg. Call x2708 for info.

Housing and Design Lecture: "Aesthetics of Computer Art," Patric Prince, Art Historian, Computer Graphics, 3:30 p.m., Maryland Room, Marie Mount Hall. Call x1543 for info.

Walter Rundell Memorial History Lecture: "The National Archives and the Academic Community," Don Wilson, Archivist of the United States, 3:30 p.m., 0102 F. S. Key Hall. Call x2843 for info.

CHPS Lecture: "Genetic Engineering: Ethical, Environmental and Animal Welfare Concerns," Michael Fox, Humane Society of the United States, 3:30 p.m., 1117 F. S. Key Hall. Call x2850 for info.

Economics and National Security Seminar: "Soviet Economic Reforms," Ed Hewett, Brookings Institution, 4 p.m., 1101 Morrill Hall. Call x3457 for info.

Mary S. Shorb Nutritional Sciences Lecture: "The Molecular Biology of Zinc Metabolism and Function," Robert J. Cousins, U. of Florida, Gainesville, 4 p.m., 0200 Symons Hall. Call x7838 for info.

Nuclear Theory Seminar: "What Do We Know About Recent Cold Fusion Experiments," Thomas Cohen, 4 p.m., 1219 Physics Bldg. Call x3501 for info.

Los Angeles 2000 LeFrak Lecture: "Los Angeles at the Crossroads," Jane G. Pisano, President of the 2000 Partnership, Los Angeles, 4:515 p.m., 2205 LeFrak Hall. Call x5718 for info.

Graduate Student Association Meeting, 4:30 p.m., 1137 Stamp Union. Call x0145 for info.

French and Italian Lecture: "Montesquieu and Revolution," Cecil P. Courtney, Cambridge U., 4:30 p.m., 3118 Jimenez Hall. Call x4303 for info.

Reliability Engineering Seminar: "Fundamental Techniques for Fault Tolerant Computers," Robert Swarz, MITRE Corp., 5:15-6:15 p.m., 2115 Chemical/Nuclear Engineering Bldg. Call x1951 or x1941 for info.

Los Angeles 2000 LeFrak Lecture: "Shaping the Future: A Vision For Los Angeles and a Question of Civic Will," 8-9:15 p.m., 2205 LeFrak Hall. Call x5718 for info.

UM Symphony Orchestra, featuring faculty members Roy Johnson, piano and Emerson Head, trumpet will perform Schubert's Symphony No. 4 and Shostakovich's Piano

Concerto No. 1, 8 p.m., Tawes Recital Hall. Call x6669 for info.

28 FRI

Education Workshop: "Interpretive and Critical Modes of Inquiry in Educational Research," featuring Max van Manen, U. of Alberta, Ann Berlak, Webster U. and Janet Miller, Hofstra U., 8:30 a.m.-2:15 p.m., 0114 Benjamin Bldg. Call x5766 for info.

Third Annual Computer Procurement Fair, 9:30 a.m.-1 p.m., 3316 Computer Science Center. Call x6927 for info.

Mental Health Lunch 'N Learn Conference: "Mental Health Consequences of Natural Disasters," Peter Steinglass, Center for Family Research at George Washington School of Medicine, 1-2 p.m., 3100E Health Center. Call x4925 for info.

Electrophysics Seminar: "Diagnostics of the Electron-Brems in a Gyrokystron Quantum Wire Lasers," Carter Armstrong, Naval Research Lab, 4-5 p.m., 1207 Laboratory for Energy Research. Call x6852 for info.

29 SAT

Agriculture Day, featuring music, demonstrations, displays, animal fitting and showmanship classes, pony rides, plenty of food, and much more, 9 a.m.-4 p.m., Barn area (near Lot 4). Call x8690 for info.



The Mendelssohn String Quartet will perform works by Schubert, Bartok and Haydn on Saturday, April 29, at 8 p.m. in the Center for Adult Education.

University Community Concert: Mendelssohn String Quartet, performing works by Schubert, Bartok and Haydn, 8 p.m., Center for Adult Education, \$15 and \$13.50. Call x6534 for info.

1 MON

Distinguished Scholar-Teacher Public Lecture: "Thirty Years of Particle Physics: Then and Now," George Snow, 2 p.m., 2203 Art-Sociology Bldg. Call x4508 for info.

Entomology Colloquium: "Modeling a Grapevine-Leafhopper-Parasite System: Implications for Vine Growth and the Effectiveness of Biological Control," David Williams, USDA, 4 p.m., 0200 Symons Hall. Call x3843 for info.

Space Science Panel Discussion: "Particle and Fields Instrumentation; Present Status and Future Needs," 4:30 p.m., 1113 Computer & Space Sciences Bldg. Call x3136 for info.

2 TUE

Zoology Seminar: "Ecphora Wheelks: Specialized Predators of Large Thick-shelled Bivalves," Brett Kent, noon, 1208 Zoo/psych. Bldg. Call x3203 for info.

International Security Studies Lecture: "Ballistic Missile Defense and Western Europe," Ivo Daalder, 12-1:30 p.m., Morrill Hall Student Lounge. Call x4344 for info.

CHPS Symposium: "Reproductive Technologies and Public Policy," 1-5 p.m., place TBA. Call x3978 for info.

University Theatre Production: "Working," a musical from the book by Studs Terkel, May 2-6 and 9-13 at 8 p.m., May 7 and 14 at 2 p.m., Rudolph E. Pugliese Theatre, \$8.5 and \$7. Call x2201 for info.

3 WED

Employee Development Seminar: "Career Counseling," speaker TBA, 9 a.m.-noon, 4201 HornbakeLibrary. Call x4811 for info.

Counseling Center Brown Bag Lectures: "Racial Socialization of Black Students Who Live in Predominantly White Neighborhoods and Attend Predominantly White Schools," Rhonda Jeter and "The Effects of the Declining Sex Ratio Relationships Between Black Men and Women," Sharon Kirkland, noon, 0106 Shoemaker Bldg. Call x2931 for info.

French and Italian Lecture: "1788 ou la Revolution improbable," Francois Moureau, Universite de Bourgogne (Dijon), 3:30 p.m., 3118 Jimenez Hall. Call x4303 for info.

Writers Here and Now Student Reading: participants and programs TBA, 4 p.m., Katherine Anne Porter Room, 3rd Floor, McKeldin Library. Call x2511 for info.

University Theatre, "Working," see May 2 for details.

* Admission charged for this event. All others are free.

Learning About the Holocaust

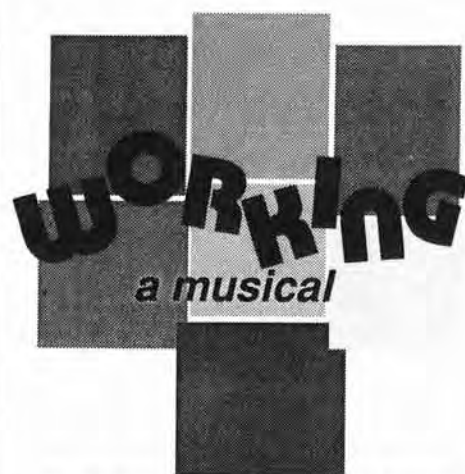
Members of the campus community are invited to a round-table discussion, "Women and the Holocaust: Resonances of Survival," on Monday, April 24 at 3 p.m. in room 2203 of the Art/Soc. building. Participants in the discussion will be women survivors who will talk about the way their different experiences affected their lives. The event was organized by Judith Hallett and Evelyn Beck and is sponsored by Women's Studies and Hillel. Call 454-3841 for information.

Helping Women Leaders Look Ahead

Undergraduate student women leaders will have a chance to examine how choosing to lead affects personal relationships, careers and other life choices women face on April 27 from 5-7 p.m. in the Colony Ballroom of the Stamp Student Union. Sponsored by the Committee on Undergraduate Women's Leadership of the President's Commission on Women's Affairs, the program, "Anticipating the Consequences: Choices You Make as a Woman of Influence," will feature presentations by Lynn Battle, attorney; Marylu McEwen, Counseling and Personnel Services; Kathryn Mohrman, Undergraduate Studies dean; and Diana Ryder Jackson, BESOS assistant dean.

ARTS AT MARYLAND

University Theatre Explores "Working" World



To prepare for an upcoming University Theatre production of the musical *Working*, UMCP student actors and designers have gone out into the real working world.

Student actors and designers have visited steelyards, truck stops, firehouses and parking garages in their efforts to recreate the lives of working men and women for the play which

opens Tues., May 2, in the Rudolph E. Pugliese Theatre.

In some cases, the students have sought merely the uniform of a job; in others they have tried to learn about a particular worker's task. In all cases, they have learned a bit more about the routine and aspirations of the average American worker.

"We're striving for a high level of authenticity," says director Ron O'Leary, associate professor of theatre.

"It is important that the students develop a deep understanding of their characters, to know what they do and how they respond to it. One actor plays a steel worker, and I've asked him to go out and find what it's like to pull steel.

"Another actor plays a truck driver. He's gone to truck stops and arranged to go on a run with one trucker. The trucker had to back out because of union regulations.

"Our costume designer must come up with about 90 costumes on a \$500 budget, so she has been out borrowing uniforms from businesses and agencies. We have gotten actual uniforms from such places as Colonial Parking, the Montgomery County Fire Department and Giant Foods," says O'Leary.

All this fits well with the premise of the musical. The play is an adaptation of Studs Terkel's book, "Working." For his book, Terkel interviewed dozens of workers encompassing all levels of the work force, from chief executive officer to supermarket checker.

Terkel drew narratives from the interviews in which the workers tell their stories in their own words. The play features monologues extracted directly from the book and songs that, as much as possible, derive from the words of the workers interviewed. The musical adaption was created by

Stephen Schwartz and Nina Faso and features music by such popular songwriters as James Taylor.

In the play more than 50 characters talk of their feelings regarding their work: a steel worker speaks of his need to leave an imprint; a stone mason articulates the joy he takes in his job; a cleaning woman tells of her search for pride in her work; a corporate boss describes the constant fear that is a part of his job.

In addition to their exploration of the working world, the student actors are also called upon to demonstrate versatility in their craft, O'Leary says. The cast includes 27 actors, all of whom play at least two roles.

Performances of *Working* are at 8 p.m. May 2-6 and May 9-13 and at 2 p.m. May 7 and 14. For ticket information call 454-2201. ■

—Brian Busek

Conference Caps First Phase of "Discovering the Americas"

Many festivities will accompany the 500th anniversary of Columbus' discovery of America in 1492. But at UMCP, an academic observance anniversary of the discovery already two years old, has produced results more sobering than festive.

The Department of Spanish and Portuguese Languages and Literatures will cap the first two-year cycle of its Discovering the Americas series with a conference on "Violence and Resistance in the Americas" May 4-6 at UMCP and the Smithsonian Institution. The conference is part of the department's six-year exploration of Columbus' voyage and its consequences. The series involves at least eight academic departments at UMCP and includes special classes, lectures, papers and conferences devoted to the subject.

"This project has never been seen as a mere celebration of 1492. It is a pretext by which we can generate new knowledge and new perspectives," says Saul Sosnowski, chair of



Spanish and Portuguese.

"What we are exploring is the experience of two peoples encountering each other under difficult circumstances. There is conquest, there is violence, an exchange and mingling of cultures, both are changed by the encounter.

"We would like to dispel the notion of a 'discovery' of America. There is no such thing as a people being discovered. (The year) 1492 is the moment when the Western hemisphere enters the European consciousness, but this does not mean that the Western hemisphere did not exist before then."

The first two years of the project were devoted to examining the native cultures in the Americas before the Columbian voyage. The conference on Violence and Resistance will look at the immediate impact of the European conquest on these cultures.

In one session, scholars will examine this impact on native cultures through the use of demographic studies. Experts will recount their attempts to measure the populations of the Americas before and after the conquest.

"Some calculations suggest that only in recent years have the native populations reached the numbers they



Popular nineteenth-century depiction of the first mass in the temples of Yucatan

were at before Columbus," Sosnowski says.

Other sessions will examine the affect of the conquest on cultures in the Americas. Scholars will explore how some groups maintained their cultural identities while others vanished.

The final session of the conference will focus on the endurance and emergence of Indian cultures.

The conference is co-sponsored by the Smithsonian Institution. For more information call 454-4305. ■

—Brian Busek

University Community Concerts Selected to Participate in Arts Program

University Community Concerts (UCC), the organization that brings more than twenty classical music concerts to College Park each season, has been chosen as one of only ten arts organizations in the entire state to participate in the third stage of the Maryland Arts Advancement Program.

Funded by a \$150,000 Challenge III grant from the National Endowment for the Arts, the Maryland Arts Ad-

vancement Program is designed to help arts groups achieve greater organizational and financial stability.

The first stage of the program was comprised of management workshops led by arts management professionals at different locations throughout the state. The second stage consisted of management audits of 20 arts organizations.

The third stage, on which UCC is

just embarking, is a strategic planning consultancy. After completing the plan and obtaining approval from the Maryland State Arts Council, UCC will be eligible to receive funding for three years at the level of \$10,000 a year.

Now 13 years old, UCC's 1988-89 concert season has featured major artists in five separate concert series: chamber music, olde musicke,

keyboard, Great American Songwriters, and the World Music Series. The final concert of the season will be Saturday, April 29 when the Mendelssohn String Quartet will play at 8 p.m. in the Center of Adult Education auditorium. Call 454-6534 for ticket information. ■

Three UMCP Students Receive General Motors Spirit Award

Three UMCP students have been chosen to receive the first annual University of Maryland—General Motors Spirit Award and as a result received three shares of General Motors stock. The GM Spirit Award is a prestigious volunteer recognition award for outstanding student volunteers who have distinguished themselves by their unselfish service to others. The three recipients, Shauna Paylor, Joyce S. Wong and James D. Hersh were presented a plaque hand-signed by the Chairman and Chief Executive Officer of General Motors, Roger Smith, and UMCP President William E. Kirwan.



Glenn M. Mason

CLOSE UP

HIEN-LO — UMCP Experiment to Fly on Space Shuttle This Summer

The Sun provides more energy to the Earth each year than all our inhabitants can use in a year. Scientists hope to someday harness that energy to power a world that is placing unrestrained demands on its limited resources.

But first they must know more about the sun.

This summer some of the answers may come from a space shuttle mission that includes an experiment constructed by the Space Physics Group in the Dept. of Physics and Astronomy.

"We are curious about how the sun and stars work. If we can explain the dynamics of the sun, it will help us explain the dynamics of the solar system," says Glenn M. Mason, principal investigator of the shuttle experiment HIEN-LO—Heavy Ion Environment at Low Altitude. The experiment, operated at 150 miles above Earth, thus "low altitude," will benefit from the Earth's magnetic field in its measurement of solar ions.

According to Mason, the Sun produces energetic particles, radio noise, a solar wind plasma, magnetic fields, cosmic rays and plasmic waves that have characteristics not fully understood by scientists. HIEN-LO will measure all elements present in the solar energetic particles to help scientists understand their chemical makeup. The experiment must be conducted in space because most solar particles are blocked by the earth's atmosphere.

"Some of this energy causes communications problems and computer memory loss onboard spacecraft and satellites," Mason says. These cosmic rays can have adverse effects on the computers of any future space station that would study, for example, the earth's environment. "The data we obtain should provide clues to what the sun is made of, and it may explain the composition of the solar atmosphere," Mason says.

According to Mason, construction of the HIEN-LO instrument was completed this year by scientists and engineers in the Space Physics Group on a \$500,000 grant from NASA. Other portions of the instrument were constructed in Munich and at Aerospace Corp. in Los Angeles. UMCP was awarded the grant after the HIEN-LO project was accepted over proposals by other institutions in 1984. "Our instrument is 100 times more sensitive than anything of this type flown before," says Mason.

Because of the importance of the data that will be gleaned from the experiment about the environment in low Earth orbit, the Air Force has given HIEN-LO priority for a flight on the shuttle this summer.

According to Mason, the 200-pound HIEN-LO instrument is housed in a drum-like canister that was con-

structed at the Goddard Space Flight Center in Greenbelt.

"Several years ago NASA developed a system called the Get Away Special that allows small experiments to accompany larger ones for full advantage of each space shuttle mission," Mason says. The Get Away Special—GAS, uses a can-like enclosure, about the size of a barrel, to encase experimental instruments.

"The GAS cans are bolted to the side of the space shuttle bay away from larger experiments. Ours will be set into operation by shuttle astronauts at an altitude of about 150 miles," Mason says.

Ulysses Ventures Beyond the Sun



During the launch phase, Ulysses will leave the space shuttle bay and begin its 14-month journey toward Jupiter, and then, the Sun.

Alighieri Dante, in his *Inferno*, recounts the quest of the mythological hero Ulysses "to venture the uncharted distances...of the uninhabited world beyond the Sun...to follow after knowledge and excellence."

In October 1990, to follow knowledge and excellence, a space shuttle will send a spacecraft named Ulysses into a part of space, beyond the sun, that has never been explored. Ulysses will study the Sun from a vantage point over both solar poles.

"We will see a view of the Sun that we've never seen before," says Fred M. Ipavich, an investigator with the Ulysses project and associate research scientist in the Institute for Physical Science and Technology (IPST) and the Dept. of Physics and Astronomy.

The Institute has designed and built an instrument to be carried on board Ulysses for studying solar wind at the Sun's poles.

According to Ipavich, the Ulysses spacecraft is an international cooperative between NASA and the European Space Agency. Nine onboard instruments will collect information about the Sun's poles, the heliosphere and the cosmic rays of stars in the Milky Way.

"Until now, observations of the Sun have been restricted to the relatively narrow plane of Earth's orbit," Ipavich

Top view of the HIEN-LO experiment. The portion shown will look into space from the shuttle bay. Energetic particles will enter the detector through the four window-like openings.

The HIEN-LO instrument will use three sensors to collect data which will be stored on tape. "We will analyze the data when the shuttle

returns to earth," Mason says. Then, the instrument will be prepared for a possible future shuttle flight. ■

—Fariss Samarrai

ward continuously from the Sun's corona. This plasma is not symmetric—it has different properties from those seen at lower latitudes. Measurements made from the poles will yield results that are more representative of the true solar composition."

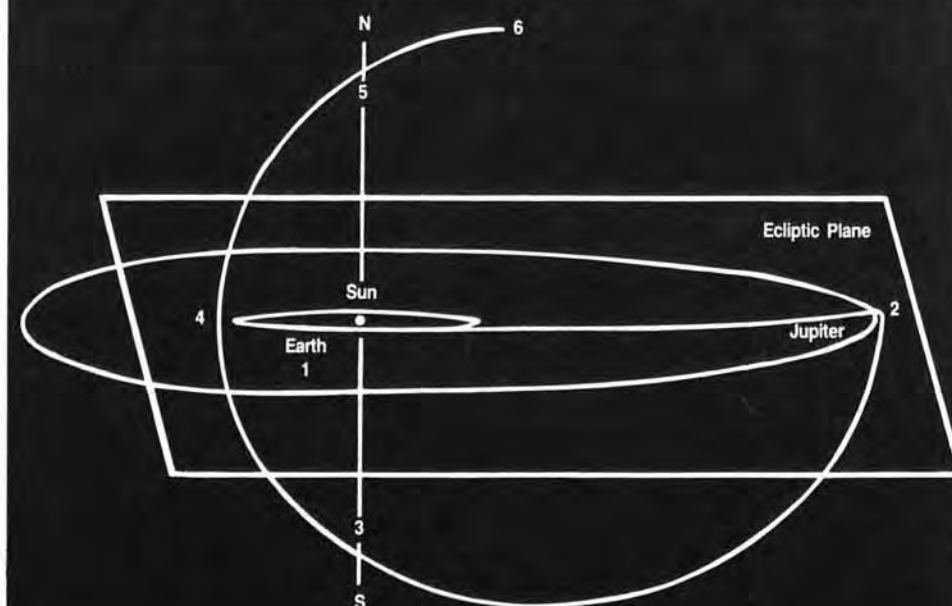
According to Ipavich, data gleaned from these experiments will lead to a fuller understanding of the stars and our own planet's environment because of the Sun's climatic effects upon it.

The \$2.5 million project is funded by NASA. George Gloeckler, professor, IPST/Physics and Astronomy, is the principal investigator of the UMCP portion of Ulysses. Antoinette Galvin, research associate, IPST, is a co-investigator. ■

—Fariss Samarrai

Ulysses Mission Timetable and Trajectory

Shuttle launch (1)	October 1990
Jupiter flyby (2)	December 1991
Southern polar passage (3)	April 1994
Solar equator crossing (4)	November 1994
Northern polar passage (5)	January 1995
End of mission (6)	August 1995



Livestock Judging, Riding Events, and More— Don't Miss Ag Day on April 29

The Agriculture Student Council will host its 64th annual Agriculture Day Saturday, April 29 from 9 a.m. to 5 p.m. Events will include livestock judging, equestrian riding events sponsored by the Equestrian Association and the Maryland Park Police, farrier demonstrations and pony rides. Most events will be located at the horse barns on the corner of Farm and Regents Drive. Displays, games and concessions will be featured, and the Veterinary Science Club is sponsoring a petting zoo. Admission is free and so is the parking in Lot 4. For more information, visit the front of the Stamp Student Union on Wednesday and Thursday, April 26 and 27.



Robert Ethan Goodman

COLLEGE PARK PEOPLE

Taking the Classroom on the Road

Fifteen college and university student teams from 12 states and Canada, including one from UMCP, will be piloting 1988 Chevrolet Corsica LT cars, like the one pictured here, in the 1989 Methanol Marathon, a five-day, 1,100-mile road rally from Detroit to Washington, D.C.

The Marathon will end Wednesday, May 3 when the cars begin arriving on the College Park campus about 2:30 p.m.

Teams have converted their cars to run on methanol fuel using grants from the U.S. and Canadian energy departments. The event, organized by the Society of Automotive Engineers and the Argonne National Laboratory, is being held to explore the practical application of fueling cars with methanol.

The teams will face off at the General Motors Technical Center in Warren, Michigan on April 28 to have their cars judged for acceleration, emissions, and conversion design and fabrication the day before the rally begins.

During the rally, the cars also will be tested for cold start driveability, fuel economy and rally times. Combined scores from all categories will determine the Marathon winner.

Winners will be announced on



Mechanical Engineering Professor David Holloway and, left to right, team members Bill Penes, David Capparelli, Greg Thomas and Rob Piacesi, pose with UMCP's entry in the Methanol Marathon.

Capitol Hill in Washington on May 4 where members of Congress from states where the schools are located will be on hand to congratulate the teams.

UMCP mechanical engineering professor David Holloway, the College Park team's advisor, believes the Maryland car has an excellent chance of winning.

"We'll be competing against some of the best engineering students in North America," he notes. "The rally should provide a wealth of new technical data from each team's experience and will give valuable information on how methanol performs under real-world conditions."

Holloway recently learned that UMCP has been selected to compete

in a GM, DOE, and SAE-sponsored solar-powered auto race to be held early in July 1990. The nine-day GM Sunrayce USA will run some 1,800 miles from Disney World in Lake Buena Vista, Florida, to the GM Tech Center in Warren, Michigan.

"Getting ready for that race will be our big project next year," the UMCP professor says. ■

—Tom Ottwell



Earl White in Main Administration Conference Room

Earl White: End of an Era

It is the end of an era for UMCP and the beginning of the pursuit of happiness for Earl White, supervisor of campus projects in the Department of Engineering and Architectural Services.

After nearly half a century of dedication, loyalty, and dependability — 47 years to be exact — White will be retiring April 28.

To say he will be missed is a gross understatement. He has been among the campus' greatest assets and his output during his many years with Physical Plant and the Engineering and Architectural Services will be difficult to match. White has consistently gone out of his way to be of help to any department or individual seeking

it, from groundskeepers to vice presidents.

Anyone who has had the good fortune to walk the grounds with him know of his comprehensive grasp of how, brick-by-brick, building-by-building, the College Park campus was put together. He is a living history book and his intimate knowledge of the campus has probably saved the university thousands of dollars in time and designs for renovation and new construction.

Those who have worked for and with him over his long years of service at College Park join in wishing Earl and Anne all the best. ■

Coloring Contest Brightens Walls in Arts and Humanities

For the second year in a row, faculty, staff, students and their children took part in the Arts and Humanities Easter Coloring Contest.

The competition is the brainchild of Paulette Godin who brought the idea with her from the Department of Campus Parking (formerly Motor Vehi-

cle Administration) where she had been coordinator of faculty/staff parking for eight years. Godin moved to Arts and Humanities in July 1987 as manager of the office of student affairs.

"I started the contest as a morale booster, a way of getting everyone to work together," Godin explains. "I wanted it to be a fun project that loosens people up, especially during stressful periods."

The contest shows every sign of increasing in popularity. This year 16 adults and nine children submitted entries. Three deans were among the contestants.

"We had some very original pieces submitted this year," Godin says. "Everybody wants to win."

And everybody does. First, second and third place ribbons are awarded in both adult and children's categories. All other entries receive honorable mention ribbons.

The blue ribbon-winning artists in each category also are awarded either a chocolate Easter egg or rabbit.

Even the judges, Arts and Humanities students who work in the office, can compete for an Easter basket by entering a lottery that Godin administers. ■



Paulette Godin inspects entries in this year's coloring contest.



New Seal Highlights Campus Name

The new UMCP seal, featuring "College Park" prominently at its bottom rim and the founding date of 1856 above, is the official seal of the campus. It will be used on official documents, contracts, reports and on diplomas. Stationery and business cards, pocket folders, note cards and invitations using the seal are available for use by campus units. Call Creative Services at 454-3327 for details.

College Park Identity Program Underway

After the enactment of Senate Bill #459, which restructured the University of Maryland system, UMCP's Office of Creative Services was charged with the development of a visual identity program for the campus.

The first step in this process was to redesign the university seal to reflect the location and founding date of the institution. A stationery package, using the seal, was approved in November 1988 and is currently in production for the use of all campus units.

An embossing die has been developed for the seal as well. It has been used to produce invitation blanks, note cards and pocket folders.

Creative Services next worked on developing logo designs. The purpose of a logo, as opposed to the more official seal, is to capture attention, to be immediately recognizable and to convey a sense of the institution that is positive, dynamic and forward-looking.

For those units whose job it is to reach and recruit prospective students or to communicate with parents, alumni, donors or corporate and business leaders, materials with a strong impact and unique appearance fill an important need. Creative Services spent several months developing various logos that would successfully reflect the special character and personality of UMCP.

A team of four designers worked on the initial designs. Margaret Hall, senior designer, then refined the best ideas for presentation to the administration. The designs chosen were selected for their versatility and adaptability in various contexts, including use on signs, decals, merchandise and publications. ■

MARYLAND

Office of the
Vice President
for Institutional
Advancement

1114 Main
Administration
Building

University of
Maryland

College Park,
Maryland
20742-5041

(301) 454-1414

April 24, 1989

Dear Colleagues:

The development of an identity program for an institution as diverse and dynamic as the University of Maryland at College Park has been an exciting challenge. Our talented design staff has created a logo family that we feel will provide the campus with maximum flexibility and alternatives that will meet the varied requirements of communication from the campus.

The stationery design you see here will be available as an alternative to the seal stationery which was introduced last December. Either or both can be ordered with your unit information from University Printing Services. The arrangement with University Printing to preprint the three-color logo and four-color seal stationery designs in bulk has enabled us to keep costs low for these colorful and classy letterheads.

With the basics established, our task over the next months will be to formulate graphic standards for the many applications of the logo and seal in publications, signage and collateral materials. The Publications Council, with representatives from all academic and administrative units, will be helpful in ensuring that special campus needs are considered. We will be working with individual units as well, to provide solutions to specific problems.

We hope to launch the new identity program next September, with publication of the graphic standards guide and a campus-wide celebration. We invite you to share the excitement of this new era at College Park, and hope you agree that our new logo program captures the pride and forward-looking spirit of our flagship institution.

Sincerely,

Judith Bair
Judith Bair
Director of Creative Services

Logo Family Fulfills Many Needs

The various elements of the logo family adopted in March 1989 by President Kirwan and the cabinet can be applied in a variety of ways depending on the requirements of a particular project.

The criteria for choosing the appropriate combination of elements are: 1) clear identification of the institution; 2) space available; 3) design considerations; 4) color restrictions.

The flag bar, will always be printed in three colors. For one- and two-color printing, #2, #3 or #4 are available.

Guidelines and suggestions for use of the logo elements will be published in a graphic standards manual to be distributed in fall 1989. ■



MARYLAND
UNIVERSITY OF MARYLAND AT COLLEGE PARK

UNIVERSITY OF MARYLAND AT COLLEGE PARK